20020820 022602T

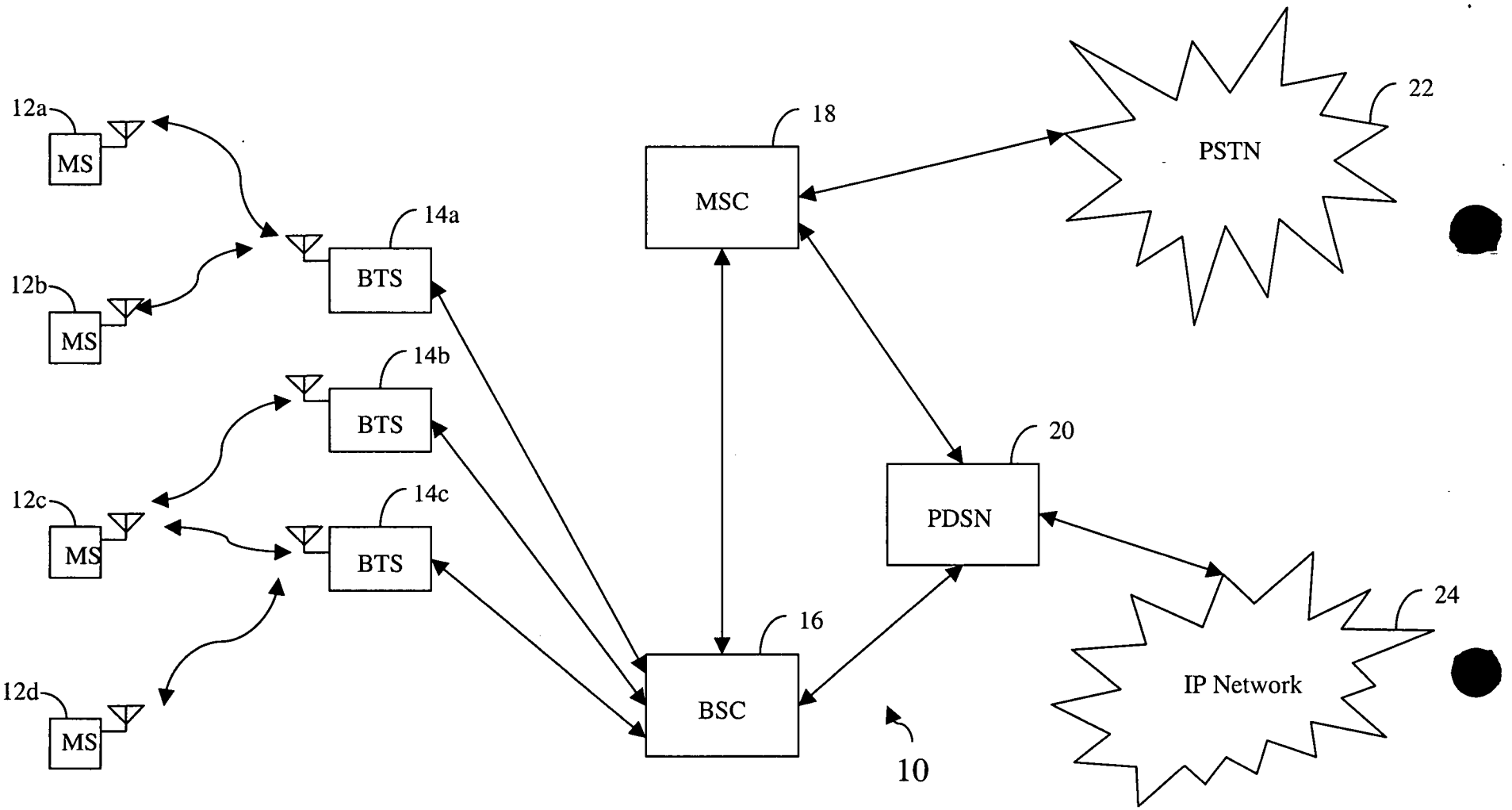
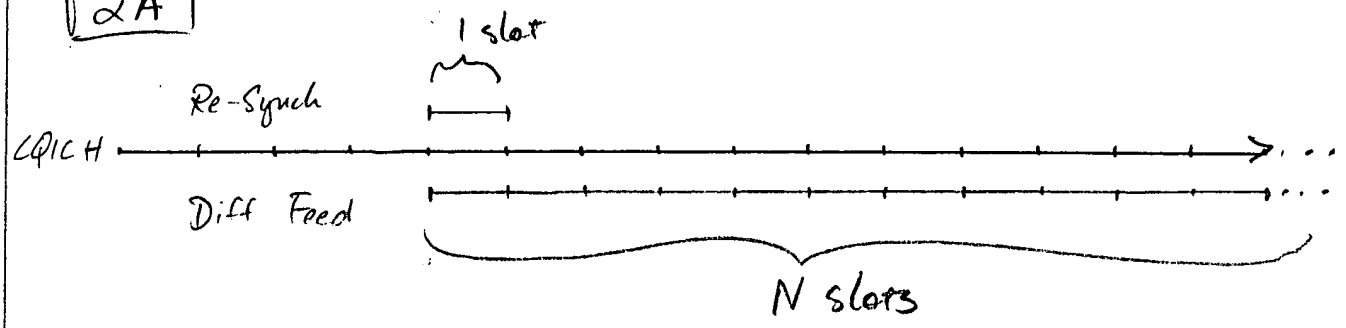


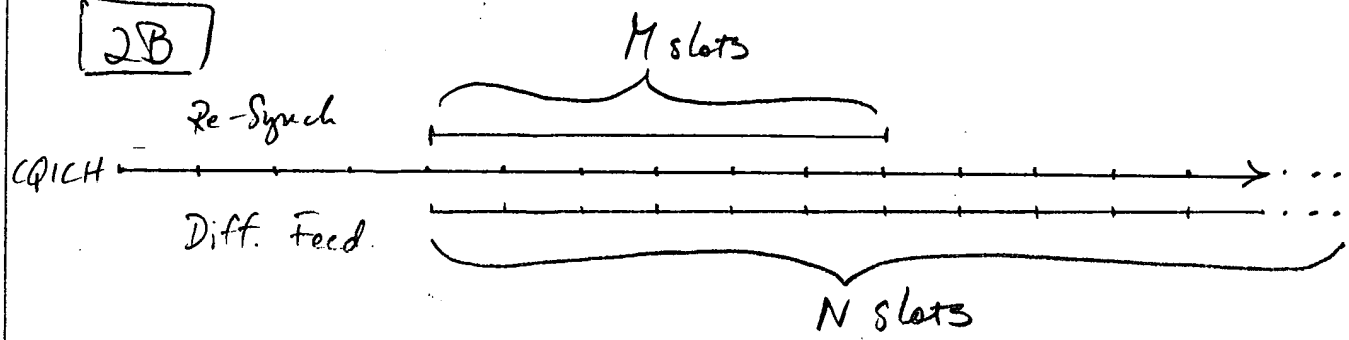
FIG. 1

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD
EDITH BRADLEY

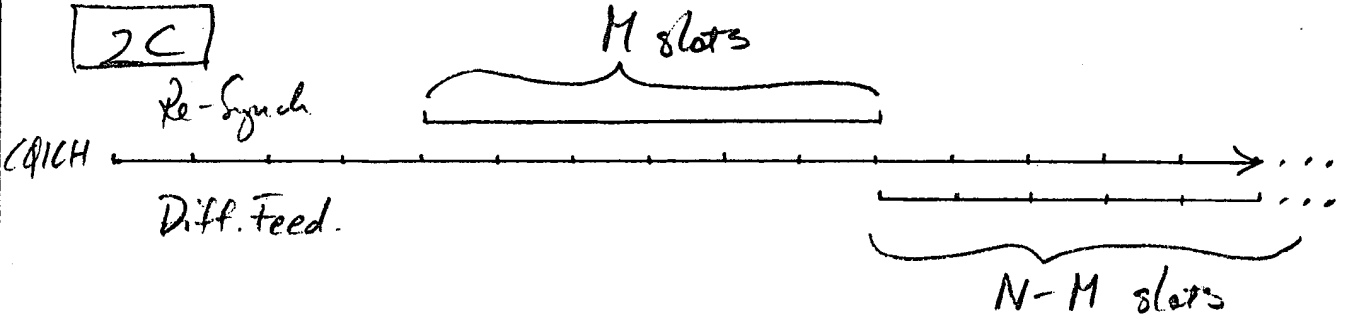
2A



2B



2C



AMPAD
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

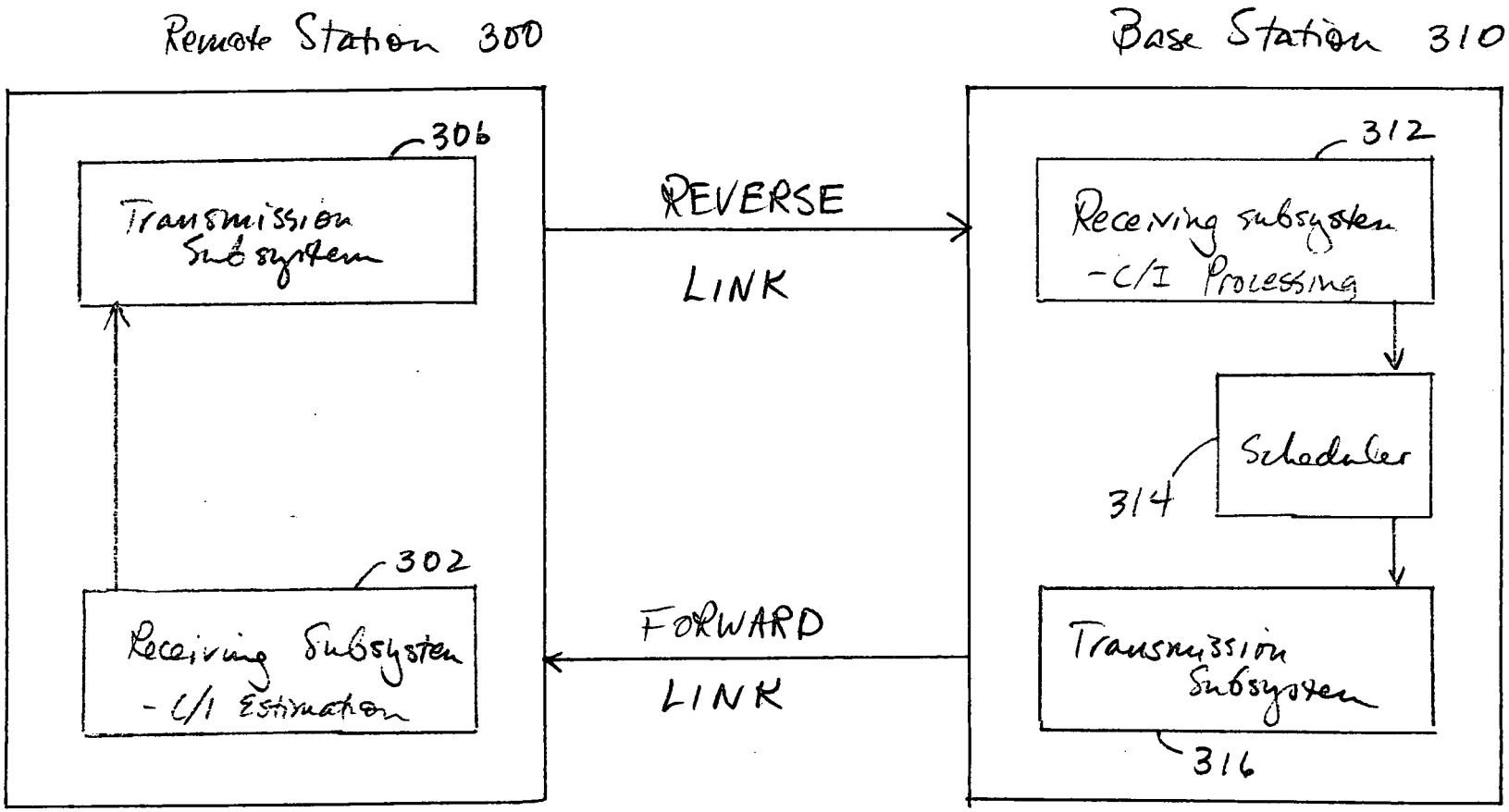
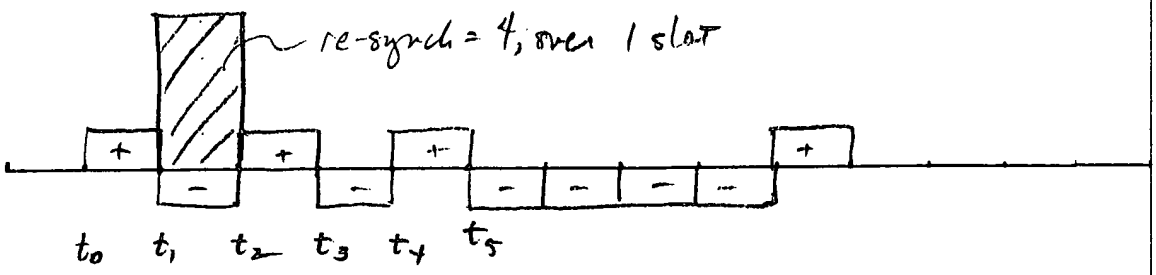


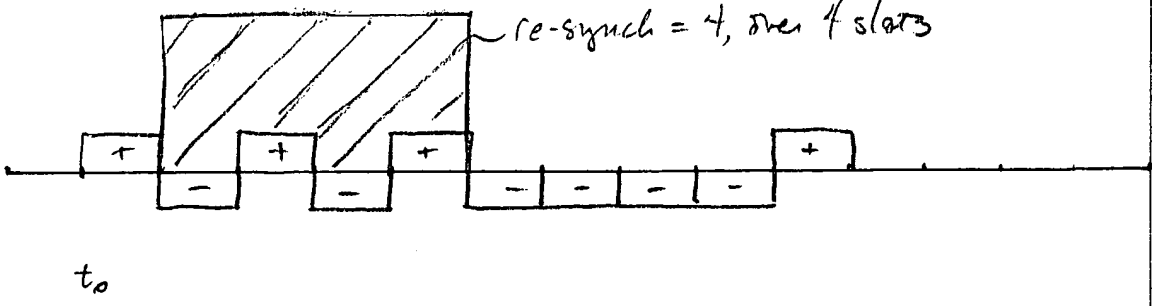
FIG. 3

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD
25 20 25 25 25 25 25

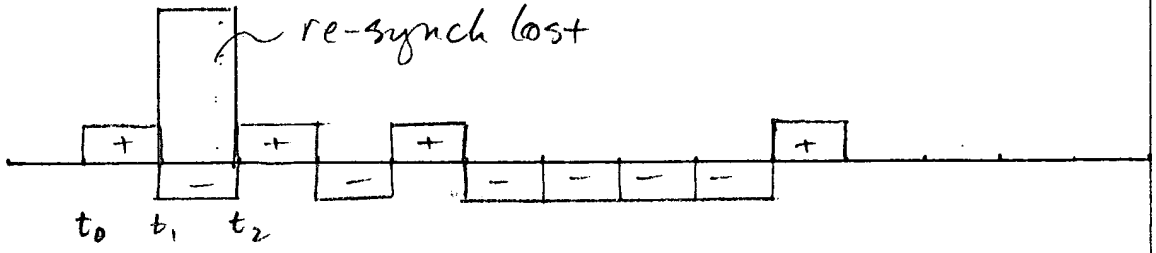
4A



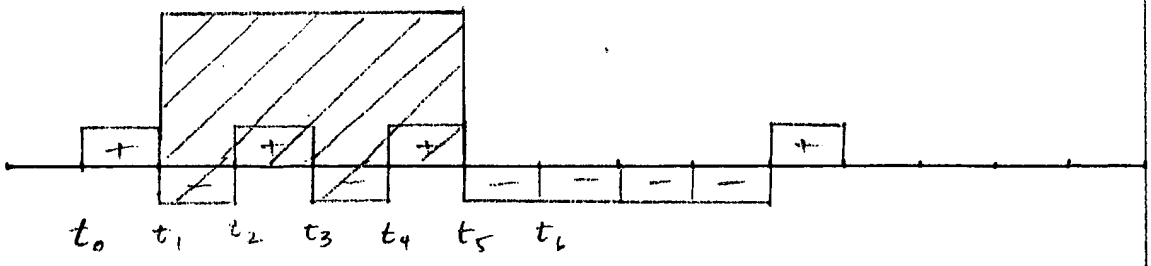
4B



4C



4D



At t_0, register contents = 10 dB

+, − ⇒ incremental beats

206T20 8226200F
AMPAD
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

	4A	4B	4C		4D	
$t_0 - t_1$	10	10	10		10	
$t_1 - t_2$	11	11	11		11	
			Re-Synch OK	Re-Synch Lost	Add	Acc.+ Add
$t_2 - t_3$	4	11	4	10	10	10
$t_3 - t_4$	5	11	5	11	11	11
$t_4 - t_5$	4	11	4	10	10	10
$t_5 - t_6$	5	4	5	11	4	5 *
$t_6 - t_7$	4	3	4	10	3	4

* Note that 1st parallel beat is discarded for "accumulate & add"

FIG. 4E

AMPAD 22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

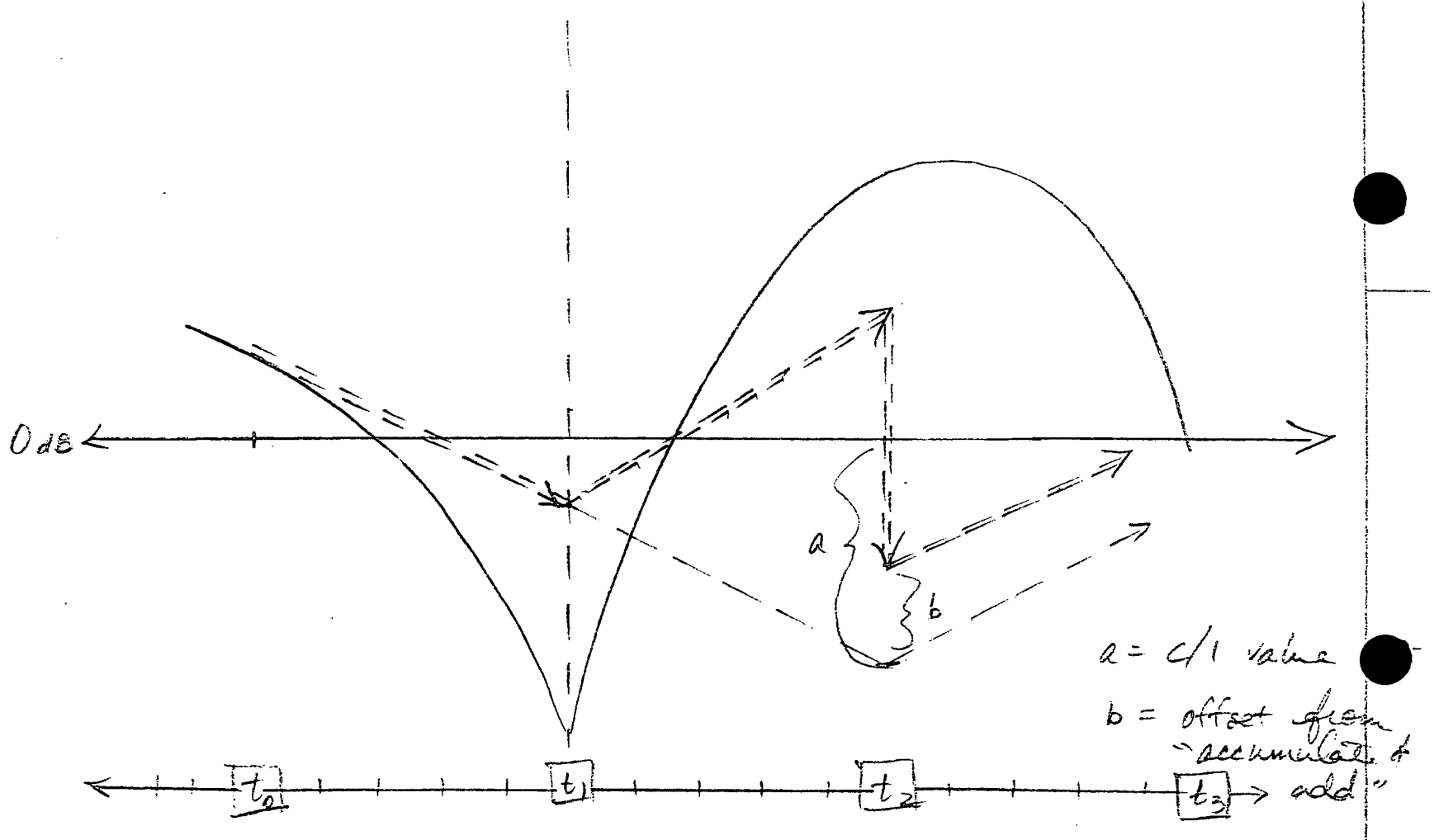


FIG. 5

(not to scale)

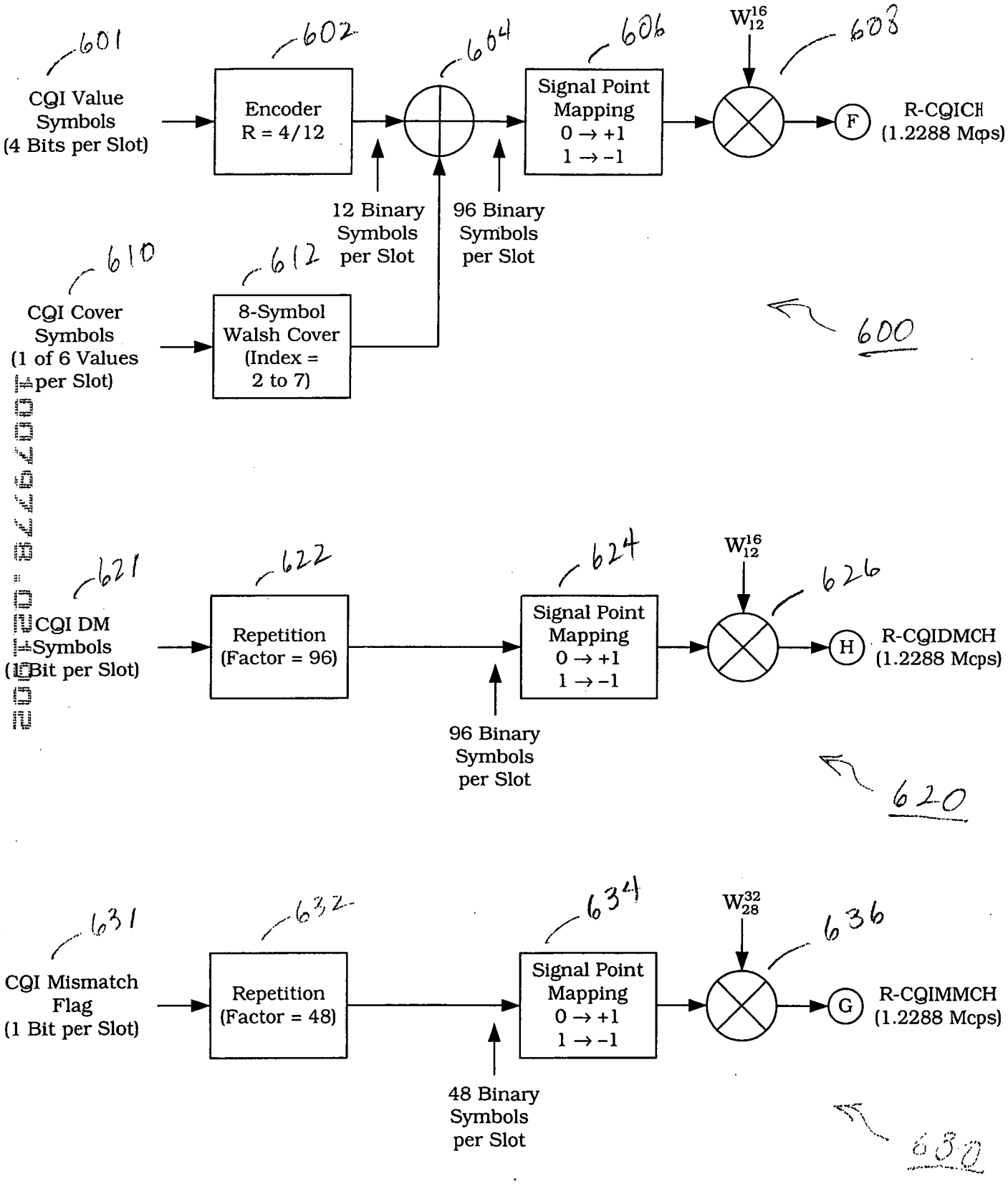

601
CQI Value Symbols (4 Bits per Slot)
602
Encoder R = 4/12
604
606
Signal Point Mapping 0 → +1 1 → −1
W_{12}^{16}
608
F
R-CQICH (1.2288 Mcps)
12 Binary Symbols per Slot
96 Binary Symbols per Slot
610
CQI Cover Symbols (1 of 6 Values per Slot)
612
8-Symbol Walsh Cover (Index = 2 to 7)
600
621
CQI DM Symbols (1 Bit per Slot)
622
Repetition (Factor = 96)
624
Signal Point Mapping 0 → +1 1 → −1
W_{12}^{16}
626
H
R-CQIDMCH (1.2288 Mcps)
96 Binary Symbols per Slot
620
631
CQI Mismatch Flag (1 Bit per Slot)
632
Repetition (Factor = 48)
634
Signal Point Mapping 0 → +1 1 → −1
W_{28}^{32}
636
G
R-CQIMMCH (1.2288 Mcps)
48 Binary Symbols per Slot
630

FIG. 6A

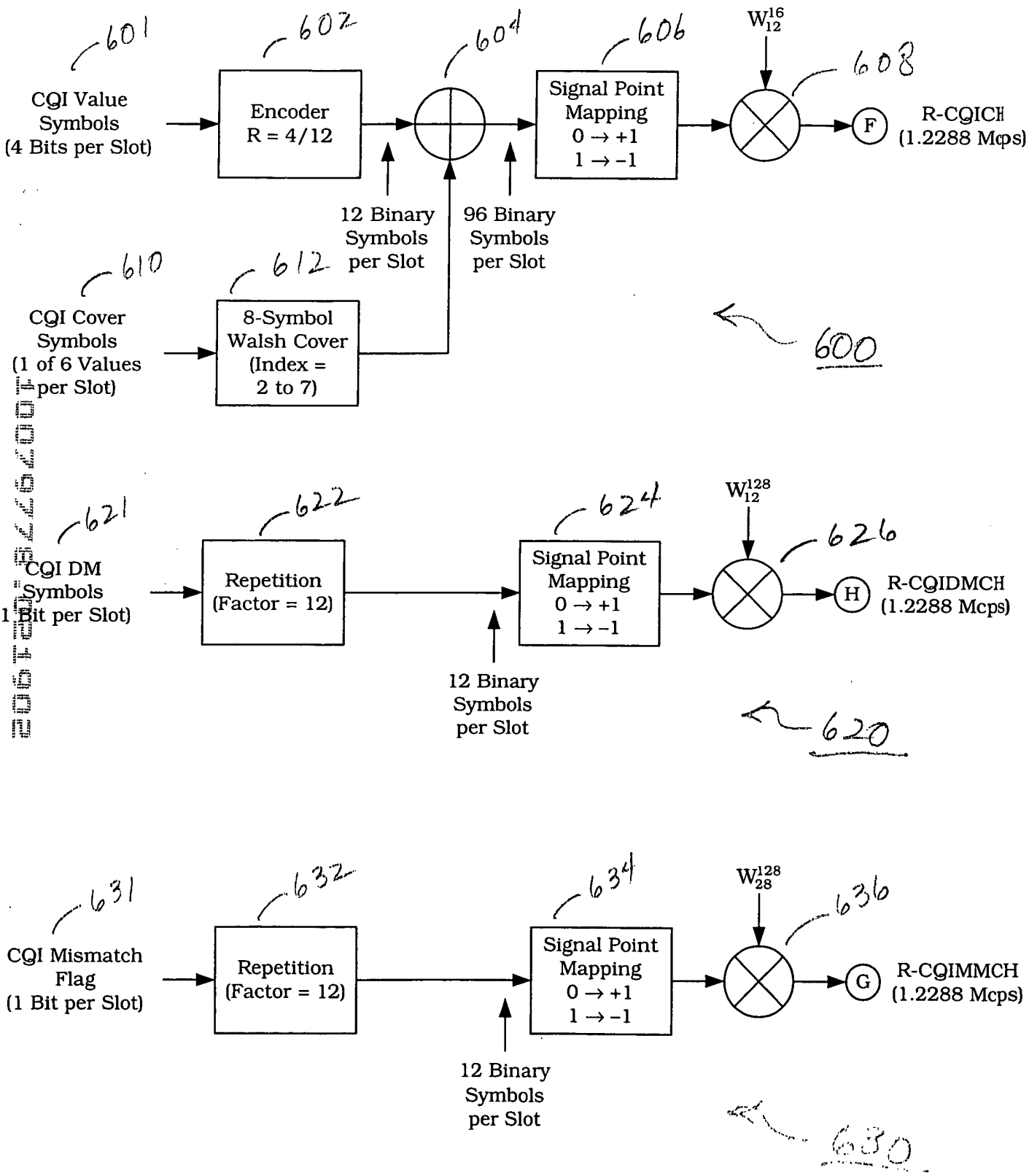

601
602
604
606
W_{12}^{16}
608
CQI Value Symbols (4 Bits per Slot)
Encoder R = 4/12
Signal Point Mapping 0 → +1 1 → −1
F
R-CQICH (1.2288 Mcps)
12 Binary Symbols per Slot
96 Binary Symbols per Slot
610
612
CQI Cover Symbols (1 of 6 Values per Slot)
8-Symbol Walsh Cover (Index = 2 to 7)
600
621
622
624
W_{12}^{128}
626
CQI DM Symbols (1 Bit per Slot)
Repetition (Factor = 12)
Signal Point Mapping 0 → +1 1 → −1
H
R-CQIDMCH (1.2288 Mcps)
12 Binary Symbols per Slot
620
631
632
634
W_{28}^{128}
636
CQI Mismatch Flag (1 Bit per Slot)
Repetition (Factor = 12)
Signal Point Mapping 0 → +1 1 → −1
G
R-CQIMMCH (1.2288 Mcps)
12 Binary Symbols per Slot
630

FIG. 6B

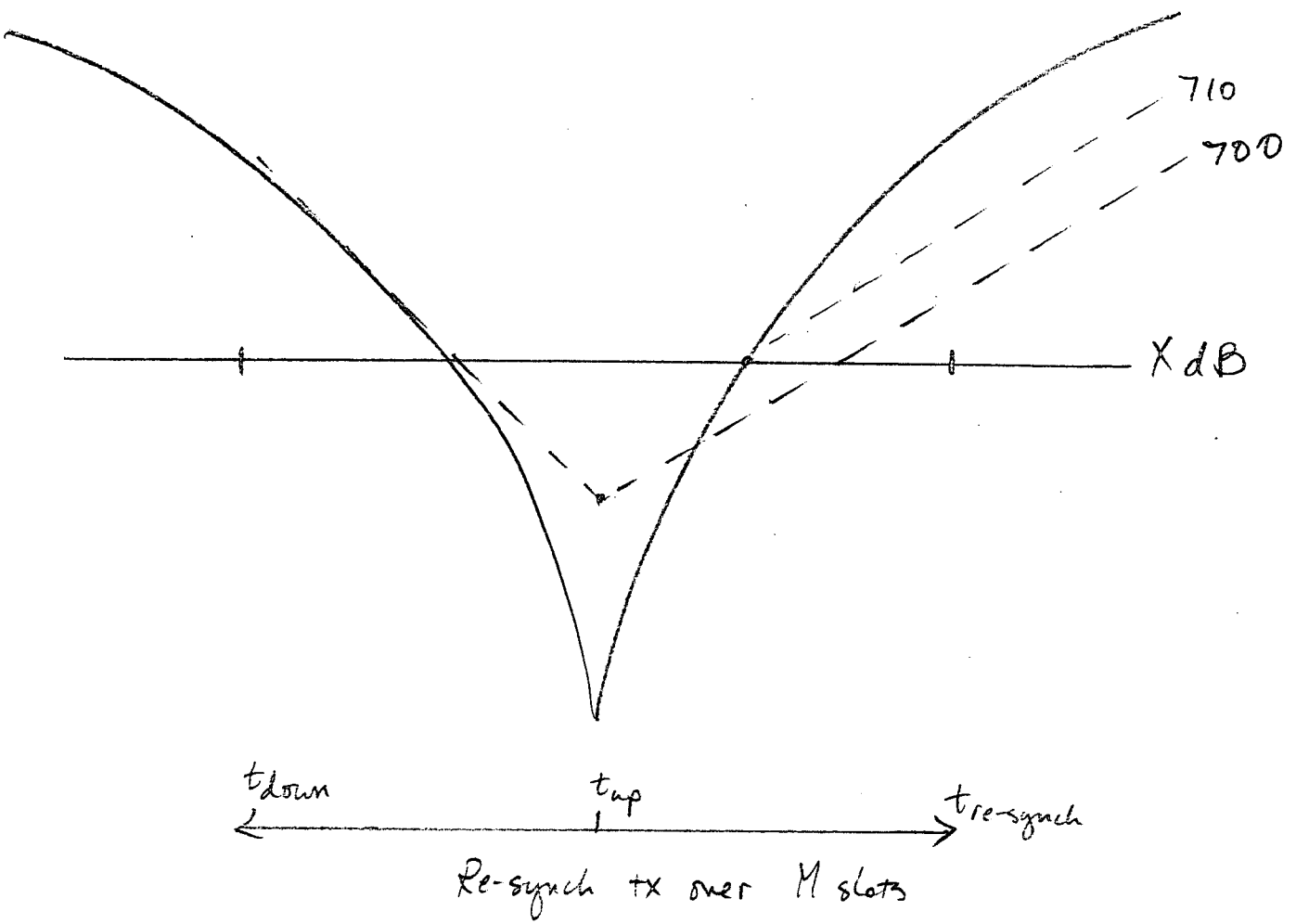


FIG. 7
(not to scale)